ABSTRACT

A structural system for elevator assemblies includes a horizontal compression member positioned near the top of the elevator hoistway for reacting to inwardly directed tension loads and moment forces applied to the hoistway wall and connection components resulting from the elevator vertical load. The horizontal compression member includes a rigid member positioned in a compression state between mounting structures for elevator ropes and elevator machine components such that the compression member reacts and counters inwardly directed horizontal forces and resultant moment forces caused by a centralized, downward vertical load.